(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/004260 A1

(51) International Patent Classification[7]: H01M 4/88, 4/86, 4/96

(21) International Application Number: PCT/NO2004/000205

(22) International Filing Date: 2 July 2004 (02.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20033110 7 July 2003 (07.07.2003) NO

(71) Applicant *(for all designated States except US)*: **REVOLT TECHNOLOGY AS** [NO/NO]; Innovasjonssenter Gløshaugen, Richard Birkelandsvei 2B, N-7491 Trondheim (NO).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **BURCHARDT, Trygve** [NO/NO]; Skyåsveien 70, N-7045 Trondheim (NO).

(74) Agent: **BRYN AARFLOT AS**; Kongengt. 15, N-0153 Oslo (NO).

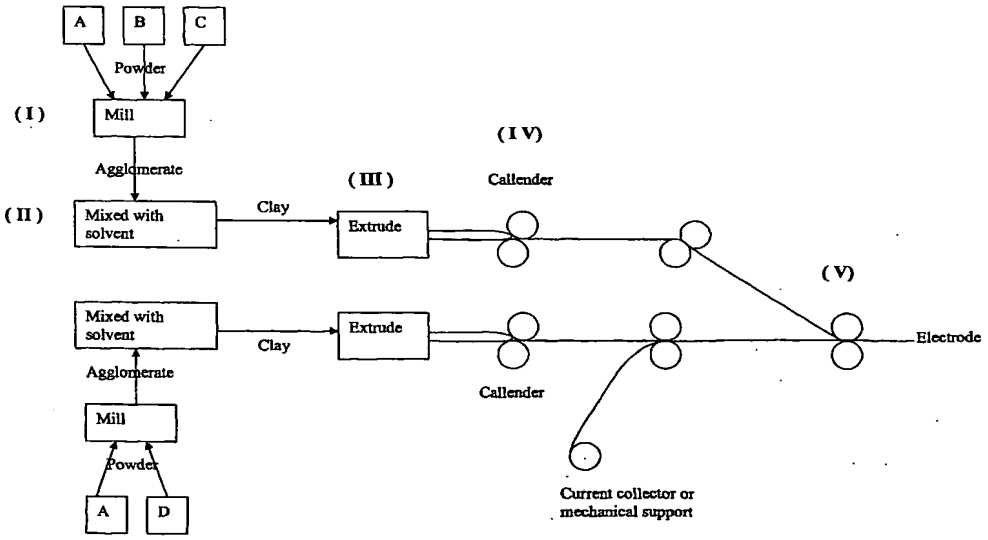
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**
— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: PRODUCTION OF GAS DIFFUSION ELECTRODES




(57) Abstract: A method for the production of a gas diffusion electrode is described, and especially a method for producing a plastic bounded thin gas diffusion electrode with high catalytic activity for the oxygen or the hydrogen reaction. The method comprising the following steps: agglomerating a powder mixture with PTFE particles in a dry form to produce a dry agglomerate; adding an organic solvent to the dry agglomerate to produce a paste; calendering the paste into a thin sheet with a thickness less than 1mm, to form an active layer or gas diffusion layer; in which one or both contain a current collector; and combining said active layer and said gas diffusion layer to form the gas diffusion electrode. The gas diffusion electrode thus produced may be used for example in fuel cells, metal-air batteries or membranes.

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